IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue of U. S. Paten)	
Applicants:	Shige	o Morimoto et al.)	Group Art Unit:
Granted:	Janua	ry 29, 2002)	ТВА
Reissue Seria	l Numb TBA	er:)	
For:	•	romycin A Derivatives and od for Preparing Same))	Examiner: TBA
		REISSUE DECLAR 37 C.F.R. §1.175 AND PO		
Box REISSUI Assistant Con Washington, I	nmissio	oner for Patents 31		
Sir:				
We hereby de	clare th	at:		•
	1.	Our residence, post office ac	ldress, a	nd citizenship are as stated below nex
o our names.				
	2.	We believe that we are the o	riginal,	first and sole inventors of the subject
natter describ	ed and	claimed in U.S. Patent No. 6,	342,590	(original patent) granted on January
29, 2002, and	for wh	ich a reissue patent is sought o	n the in	vention entitled: ERYTHROMYCIN
A DERIVATI	VES A	ND METHOD FOR PREPA	RING SA	AME, the specification of which:
	[X]	is attached hereto.		
	[] amend	was filed on as reled on	issue ap	plication no and was

962164v1

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- 3. We do not know and do not believe that this invention was ever known or used in the United States before our invention thereof; and to the best of our knowledge and belief, said invention was not in public use or on sale in the United States more than one (1) year prior to our application or patented or made the subject of an inventor's certificate or described in any printed publication in any country before our invention or more than one (1) year prior to our application or patented in any foreign country.
- 4. We have reviewed and understand the contents of the specification and claims of the reissue application as amended by a Preliminary Amendment.
- 5. We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

COUNTRY		DATE OF FILING	PRIORITY CLAIME	
(if PCT, indicate "PCT"	APPLICATION NUMBER	(day, month, year)	UNDER 3	5 USC 119
Japan	2-220315	18 September, 1986	☑ YES	NO
			YES	NO
			YES	NO
			YES	NO
			YES	NO

- 6. We acknowledge the duty to disclose all information to the United States

 Patent Office known to us to be material to the examination of the reissue application, in

 accordance with 37 C.F.R. § 1.56.
- 7. We believe the original patent, upon which the reissue application is based, is partly inoperative by reason of our having claimed less than we had a right to claim therein, in that we had a right to claim our invention more specifically; and more particularly by us having omitted therefrom narrower claims than the scope of the original and sole patent claim 1.
- 8. The invention disclosed in the original patent included methods for making 6-O-methylerythromycin from Erythromycin A-9-oxime, and even more broadly, intermediate steps used in the synthesis of 6-O-methylerythromycin from Erythromycin A. It also included novel intermediate products used in the preparation of 6-O-methylerythromycin.
- 9. Claim 1, the sole claim of the original patent, claimed certain novel intermediate steps that may be used in the synthesis of 6-O-methylerythromycin, or any other similar compound, starting from Erythromycin A-9-oxime. Further steps required to obtain the typically-desired final compound—6-O-methylerythromycin—are described in detail, including without limitation in column 4, line 48 through column 5, line 30. Specific examples—Referential Examples 1 and 2—are provided in column 10, line 52 through column 11, line 53.
- 10. The new process claims proposed in the Preliminary Amendment are narrower in scope than claim 1, and cover only those processes that lead to 6-O-methylerythromycin, including the additional steps required to convert the novel intermediate into 6-O-methylerythromycin.
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- 9. In view of the foregoing, U.S. Patent No. 6,342,590 should be reissued with the claims now presented or with claims commensurate therewith.
- 10. Wherefore, the undersigned request a reissue patent as herein sought for the purpose of adequately, clearly, and fully protecting the disclosed invention to which we are entitled.
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_	Send Correspondence to: Customer Number 23723			
	map, Webb & Tyler, LLP of the Americas		(name and telephone number) Stuart E. Pollack (212) 336-2721	
FULL NAME OF INVENTOR	FAMILY NAME MORIMOTO	FIRST GIVEN NAME Shigeo	SECOND GIVEN NAME	
INVENTOR'S SIGNATURE	Shipe Morindo	DATE	January <u>27</u> , 2004	
RESIDENCE & CTTIZENSHIP	Saitama	STATE OR FOREIGN COUNTRY Japan	COUNTRY OF CITIZENSHIP Japan	
POST OFFICE ADDRESS	POST OFFICE ADDRESS 1-16-21, Hiranuma, Yoshikawa-shi	Saitama	STATE & ZIP CODE/COUNTRY /Japan 342-0056	

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Box REISSUL Assistant Con Washington, l	nmissio	oner for Patents 231			
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Send Corresp Customer Nu			Direct Telephone Calls to:
1133 Avenue	Docketing knap, Webb & Tyler, LLP of the Americas w York 10036		(mame and telephone number) Stuart E. Pollack (212) 336-2721
FULL NAME OF INVENTOR	FAMILY NAME ADACHI	first given name Takashi	SECOND GIVEN NAME
inventor's signature		DATE	January <u>27</u> , 2004
	Jakosli adachi		
RESIDENCE & CITIZENSHIP	Saitama	STATE OR FOREIGN COUNTRY Japan	COUNTRY OF CITIZENSHIP Japan
POST OFFICE ADDRESS	POST OFFICE ADDRESS 4-2-1-12-203, Sakurada, Washimaya-cho	сту Kitakatsushika-gun, Saitama	STATE & ZIP CODE/COUNTRY /Japan 340-0203

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicants:	Shige	o Morimoto et al.)	Group Art Unit: TBA	
Granted:	Januai	ry 29, 2002)	IDA	
Reissue Serial For:	TBA Erythi	er: comycin A Derivatives and and for Preparing Same))))	Examiner: TBA	
		DEIGGUE DEGLAD	A TOLON	VINDON.	- - - -
		REISSUE DECLAR 37 C.F.R. §1.175 AND POV			·
Box REISSUI Assistant Con Washington, I	nmissio	ner for Patents 31			
Sir:					
We hereby de	clare th	at:			
	1.	Our residence, post office ad	dress, a	nd citizenship are as sta	ated below nex
o our names.					
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A DERIVATI	VES A	ND METHOD FOR PREPAR	ING SA	ME, the specification	of which:
	[X]	is attached hereto.			
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COUNTRY (if PCT, indicate "PCT"	APPLICATION NUMBER	DATE OF FILING (day, month, year)		CLAIMED
(IIICI, Illuscate ICI		(day, month, year)	GIVEEK 3	J 03C 119
Japan	2-220315	18 September, 1986	☑ YES	NO
			YES	NO
	·		YES	NO
			YES	NO
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Send Corresp Customer Nu	•		Direct Telephone Calls to:
1133 Avenue	Docketing knap, Webb & Tyler, LLP of the Americas ew York 10036		(name and telephone number) Stuart E. Pollack (212) 336-2721
FULL NAME OF INVENTOR	FAMILY NAME MATSUNAGA	first given name Tohtu	SECOND GIVEN NAME
INVENTOR'S SIGNATURE	Tohru Matsunga	DATE	January <u>27</u> , 2004
RESIDENCE & CITIZENSHIP	Saitama	STATE OR FOREIGN COUNTRY Japan	COUNTRY OF CITIZENSHIP Japan
POST OFFICE ADDRESS	POST OFFICE ADDRESS 846-5 [2-121], Koguki, Kuki-shi	Saitama	STATE & ZIP CODE/COUNTRY /Japan 346-0001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicants:	Shige	o Morimoto et al.)	Group Art Unit: TBA
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FULL NAME OF INVENTOR	FAMILY NAME KASHIMURA	FIRST GIVEN NAME Masato	SECOND GIVEN NAME		
INVENTOR'S SIGNATURE	masste Kashinur u	DATE	January 27, 2004		
RESIDENCE & CTITZENSHIP	Saitama	STATE OR FOREIGN COUNTRY Japan	COUNTRY OF CITIZENSHIP Japan		
POST OFFICE ADDRESS	POST OFFICE ADDRESS 1360, Horisaki-cho, Minuma-ku	спу Saitama-shi, Saitama	STATE & ZIP CODE/COUNTRY /Japan 337-0052		

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- 11. The particular features of our invention as set forth in claims 2-5 are narrower in scope than the existing claim 1 of the original patent. In order to provide the

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- 12. We understand that new claims 2-5 might provide better protection against infringers that may practice these claims abroad. Our attorneys have advised us that under the law, claims 2-5 are narrower in scope than original claim 1. Nevertheless, to the extent claims 2-5 are deemed by the examiner to be broader than original claim 1, and in order to provide the complete range of protection to which we are entitled, and which we had desired to obtain in our original application that matured into U.S. Patent No. 6,342,592, we desire to broaden our claims to have the scope of claims 2-5.
- 8. The error of claiming less than we had a right to claim arose without deceptive intent on our part.
- 9. In view of the foregoing, U.S. Patent No. 6,342,590 should be reissued with the claims now presented or with claims commensurate therewith.
- 10. Wherefore, the undersigned request a reissue patent as herein sought for the purpose of adequately, clearly, and fully protecting the disclosed invention to which we are entitled.
- 13. We hereby appoint Practitioners at Customer Number 23723, Patterson, Belknap, Webb & Tyler LLP, as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.
- 14. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and

Send Corres	pondence to:		Direct Telephone Calls
Customer Ni	ımber 23723	to:	
1133 Avenue	Docketing knap, Webb & Tyler, LLP of the Americas ew York 10036		(name and telephone number) Stuart E. Pollack (212) 336-2721
FULL NAME OF INVENTOR	FAMILY NAME WATANABE	first given name Yoshiaki	SECOND GIVEN NAME
INVENTOR'S SIGNATURE	Joshichi Watant	DATE	January <u>27</u> , 2004
RESIDENCE & CITIZENSHIP	Aomori	STATE OR FOREIGN COUNTRY Japan	COUNTRY OF CITIZENSHIP Japan
POST OFFICE ADDRESS	POST OFFICE ADDRESS 73-1, Sainokami, Imadzu, Tairadate-mura	сту Higashitsugaru-gun, Aomori	STATE & ZIP CODE/COUNTRY /Japan 030-1413

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue of U. S. Paten) .	
Applicants:	Shige	o Morimoto et al.	Ì	Group Art Unit: TBA
Granted:	Janua	ry 29, 2002)	IDA
Reissue Seria	TBA)	Examiner:
For:	-	romycin A Derivatives and od for Preparing Same)	TBA
		REISSUE DECLAI 37 C.F.R. §1.175 AND PO		
Box REISSU! Assistant Con Washington, l	nmissio	ner for Patents 31		
Sir:				
We hereby de	clare th	at:		
	1.	Our residence, post office a	ddress, a	nd citizenship are as stated below nex
to our names.				
	2.	We believe that we are the	original,	first and sole inventors of the subject
matter describ	ed and	claimed in U.S. Patent No. 6	,342,590	(original patent) granted on January
29, 2002, and	for whi	ch a reissue patent is sought	on the in	vention entitled: ERYTHROMYCIN
A DERIVATI	VES A	ND METHOD FOR PREPA	RING SA	AME, the specification of which:
	[X]	is attached hereto.		
	[] amend	was filed on as reled on	eissue app	olication no and was

- 3. We do not know and do not believe that this invention was ever known or used in the United States before our invention thereof; and to the best of our knowledge and belief, said invention was not in public use or on sale in the United States more than one (1) year prior to our application or patented or made the subject of an inventor's certificate or described in any printed publication in any country before our invention or more than one (1) year prior to our application or patented in any foreign country.
- 4. We have reviewed and understand the contents of the specification and claims of the reissue application as amended by a Preliminary Amendment.
- 5. We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

COUNTRY	APPLICATION(S) AND AN	DATE OF FILING		CLAIMED
COUNTRY	APPLICATION NUMBER	DATE OF FILING		
(if PCT, indicate "PCT"		(day, month, year)	UNDER 35 USC 1	
Japan	2-220315	18 September, 1986	☑ YES	NO
			YES	NO
			YES	NO
			YES	NO
			YES	NO

- 6. We acknowledge the duty to disclose all information to the United States

 Patent Office known to us to be material to the examination of the reissue application, in

 accordance with 37 C.F.R. § 1.56.
- 7. We believe the original patent, upon which the reissue application is based, is partly inoperative by reason of our having claimed less than we had a right to claim therein, in that we had a right to claim our invention more specifically; and more particularly by us having omitted therefrom narrower claims than the scope of the original and sole patent claim 1.
- 8. The invention disclosed in the original patent included methods for making 6-O-methylerythromycin from Erythromycin A-9-oxime, and even more broadly, intermediate steps used in the synthesis of 6-O-methylerythromycin from Erythromycin A. It also included novel intermediate products used in the preparation of 6-O-methylerythromycin.
- 9. Claim 1, the sole claim of the original patent, claimed certain novel intermediate steps that may be used in the synthesis of 6-O-methylerythromycin, or any other similar compound, starting from Erythromycin A-9-oxime. Further steps required to obtain the typically-desired final compound—6-O-methylerythromycin—are described in detail, including without limitation in column 4, line 48 through column 5, line 30. Specific examples—
 Referential Examples 1 and 2—are provided in column 10, line 52 through column 11, line 53.
- 10. The new process claims proposed in the Preliminary Amendment are narrower in scope than claim 1, and cover only those processes that lead to 6-O-methylerythromycin, including the additional steps required to convert the novel intermediate into 6-O-methylerythromycin.
- 11. The particular features of our invention as set forth in claims 2-5 are narrower in scope than the existing claim 1 of the original patent. In order to provide the

- 12. We understand that new claims 2-5 might provide better protection against infringers that may practice these claims abroad. Our attorneys have advised us that under the law, claims 2-5 are narrower in scope than original claim 1. Nevertheless, to the extent claims 2-5 are deemed by the examiner to be broader than original claim 1, and in order to provide the complete range of protection to which we are entitled, and which we had desired to obtain in our original application that matured into U.S. Patent No. 6,342,592, we desire to broaden our claims to have the scope of claims 2-5.
- 8. The error of claiming less than we had a right to claim arose without deceptive intent on our part.
- 9. In view of the foregoing, U.S. Patent No. 6,342,590 should be reissued with the claims now presented or with claims commensurate therewith.
- 10. Wherefore, the undersigned request a reissue patent as herein sought for the purpose of adequately, clearly, and fully protecting the disclosed invention to which we are entitled.
- 13. We hereby appoint Practitioners at Customer Number 23723, Patterson, Belknap, Webb & Tyler LLP, as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.
- 14. We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and

Send Corresp	ondence to:		Direct Telephone Calls
Customer Number 23723			to:
Attention: IP Docketing Patterson, Belknap, Webb & Tyler, LLP 1133 Avenue of the Americas New York, New York 10036			Stuart E. Pollack (212) 336-2721
FULL NAME OF	FAMILY NAME SOTA	FIRST GIVEN NAME Kaoru	SECOND GIVEN NAME
INVENTOR'S SIGNATURE	Kaoru Sota	DATE	January <u>27</u> , 2004
RESIDENCE & CITIZENSHIP	Saitama	STATE OR FOREIGN COUNTRY Japan	country of citizenship Japan
POST OFFICE ADDRESS	POST OFFICE ADDRESS 1158-11, Shimotomi, Tokorozawa	Saitama	STATE & ZIP CODE/COUNTRY /Japan 359-0001

PTC/SB/81 (09-03)
Approved for use through 11/30/2005, OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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ed to respond to a collection of mit	innador unless it displays a valid OMB condor number.
Application Number	Not yet assigned-Reissue of 6,342,590 B1
Filing Date	January 28, 2004
First Named Inventor	Morimoto
Title	Erythromycin A Derivatives and Method for Preparing Same
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	A0407-001592A

I hereby appoint:						
Practitioners associated with the Customer Number: 2372:			23723	1		
OR	OR					
Praci	Practitioner(s) named below:					
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l		Name		Registration Number		Imper
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	attorney(s) or agent(s Office connected the	s) to prosecute the application erewith.	identified above	, and to tran	nsact all business in	the United States Patent and
Please reco	onize or change the	e correspondence address for t	the above-identi	fied applicati	ion to:	
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Th	ie address associate	ed with the above-mentioned C	Sustomer Number	er:		
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	ohone			Fax		· · · · · · · · · · · · · · · · · · ·
I am the: Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)						
SIGNATURE of Applicant or Assignee of Record						
Name	Akira Uehara, Pro	esident, Taisho Pharmace	utical Compar	nv I td.		
Signature	777	eu loban	dicar con.p.s.	119, 4.0.		
Date	27 January, 2004	The same	_		Telephone 011	1-81-03-3985-1111
	tures of all the inventors	s or assignees of record of the enti-	ire interest or their	representative	e(s) are required. Subn	nit multiple
forms ir more	than one signature is re	aquired, see below.				
*Total of forms are submitted.						

This collection of Information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patentand Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EXPRESS MAIL LABEL NO.: EXCESSOR ATTORNEY DOCKET NO.: A0407-001592A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue of U. S. Pate	Application nt No. 6,342,590))
Applicants:	Shigeo Morimoto et al.) Group Art Unit:) TBA
Granted:	January 29, 2002)
Reissue Seria	al Number: TBA))
For:	Erythromycin A Derivatives and Method for Preparing Same) Examiner:) TBA

ASSENT OF ASSIGNEE TO REISSUE

Box REISSUE Assistant Commissioner for Patents Washington, DC 20231

Sir:

The undersigned, by authority vested in him by Taisho Pharmaceutical Company, Limited, assignee of the entire interest in U.S. Patent No. 6,342,590, the invention described therein, and in any reissue thereof by assignment recorded at Reel 4770, Frame 0623, hereby assents on behalf of the assignee to the accompanying application for reissue.

By: (

Date: 27 January, 2004

Akira Uehara

President

Taisho Pharmaceutical Company, Limited

24-1, Takata 3-Chome

Toshimaku

Tokyo 170-8833

Japan

EXPRESS MAIL LABEL NO.: A0407-001592A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

	Application)
of U.S. Pate	ent No. 6,342,590)
Applicants:	Shigeo Morimoto et al.) Group Art Unit:) TBA
Granted:	January 29, 2002)
Reissue Seri	al Number:)
	TBA)
) Examiner:
For:	Erythromycin A Derivatives and) TBA
	Method for Preparing Same)

CERTIFICATE UNDER 37 C.F.R. 3.73(b)

Box REISSUE Assistant Commissioner for Patents Washington, DC 20231

Sir:

Taisho Pharmaceutical Company, Limited, a corporation in Tokyo, Japan, certifies that it is the assignee of the entire interest in U.S. Patent No. 6,342,590, by virtue of the chain of title from the inventor to the assignee as shown below:

FROM	то	REEL/FRAME NO. or Documents Enclosed
Shigeo Morimoto Takashi Adachi Tohru Matsunaga Masato Kashimura Yoshiaki Watanabe Kaoru Sota	Taisho Pharmaceutical Company, Ltd.	4770/0623

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued therein.

Respectfully submitted,

Date: 27 January, 2004

Akira Uehara

President President

Taisho Pharmaceutical Company, Limited

24-1, Takata 3-Chome

Toshimaku

Tokyo 170-8833

Japan